

## CHUM-629M/C-C 6MP, 1/1.8" CMOS, Board Level USB3.0 Camera

**USB**<sup>™</sup>  
VISION



CHUM-629M/C-C 6 MP 1/1.8" CMOS Board Level USB3.0 Camera is a high quality device that can be used in a variety of applications, including electronic semiconductor fabrication, factory automation, logistics code reading, bottle inspection and medical packaging.

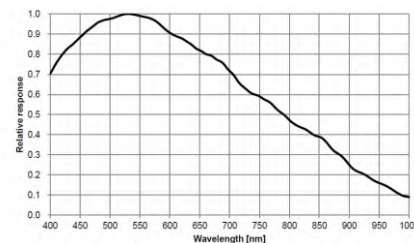
### Key Features

- Single board design, flexible configuration.
- Support exposure, gain, white balance control, LUT and gamma correction.
- HDR polling for periodic adjustment of exposure and gain under different lighting.
- Cameras can be synchronized with hard trigger and soft trigger.
- User defined ROI to increase frame rate, optional Binning to improve sensitivity, reverse supported.
- Embed color interpolation algorithm which reproduces color performance better.
- USB 3.0 interface provides 3Gbps bandwidth.
- Compatible with USB 3.0 vision (V1.0) and GenICam, can be supported by third party software.

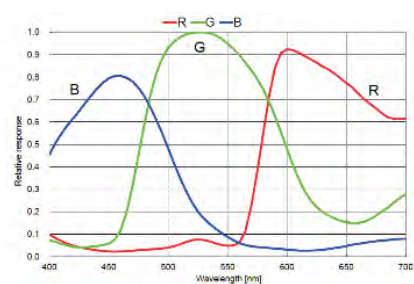
### Application Scenarios

- Electronic semiconductor
- Factory automation
- Logistics code reading
- Bottle inspection
- Medical packaging

### Spectral Response



### CHUM-629M-C Quantum Efficiency



### CHUM-629C-C Quantum Efficiency

### Order Models

Mono (With C-mount): CHUM-629M-C  
Color (With C-mount): CHUM-629C-C

## Specifications

Model	CHUM-629M-C	CHUM-629C-C
Parameters	6MP, 1/1.8" CMOS, Board Level USB3.0 Camera	
<b>Camera</b>		
Sensor	IMX178	
Pixel Size	2.4μm×2.4μm	
Sensor Size	1/1.8"	
Resolution	3072×2048	
Frame Rate	17fps	29fps
Dynamic Range	>65dB	
SNR	>40dB	
Gain Range	0-20dB	
Exposure Time	27μs-2.5sec	24μs-2.5sec
Shutter Mode	Rolling Shutter with GlobalReset supported. Auto-Exposure, Manual Exposure, and One-Key Exposure	
Data Interface	USB3.0	
General Purpose I/O	Bi-directional non-isolated I/O ×2	
Data Format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422_YUYV_Packed, YUV422_Packed, RGB8
<b>General</b>		
Power	<1.5W@5VDC, Voltage 5VDC, USB3.0 power supply supported	
Temperature	Working Temperature 0~50°C, Storage Temperature -30~70°C	
Humidity	20%-80% RH without condensation	
Dimension	35mm×35mm×13.7mm	
Weight	<30g	
Lens Interface	C-Mount	
Software	MVS or Third-Party Software supporting USB3.0 Vision Protocol	
Operating System	Windows XP/7/10 32/64bits	
Compliance	USB3.0 Vision	
Certification	CE, FCC, RoHS	

### Recommended Accessories

- **Cable:** Micro USB 3.0 (B type) cable recommended

### Dimensions

